



Riley Equipment Company  
6911 Gant Road  
Houston, Texas 77066  
www.recofiltration.com  
(281) 583-5295 Fax: (281) 583-5299

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## RECO Deep Bed Scrubber - RDBS

The RECO Deep Bed Scrubber (RDBS) is designed for areas where there are high contaminant Gas levels and provide more effective protection against environmentally induced corrosions in control and switch gear rooms equipped with electronic process control systems, refineries, steel mills, smelters, chemical plants, petrochemical plants and other hostile environments. Each RDBS is designed to deliver G1 into the space it is protecting according to the environmental standard definition set by the Instrument Society of America (ISA)

### Equipment Advantages:

1. Media Selection: Custom selection of up to 36 inches of different chemisorbant media, depending on the corrosive gases present in the environment.
2. Economical: Design allows for higher airflow rates and higher efficiencies at lower CFM costs.
3. System Compatibility: Designed to sit outside the space to be potted. The RDBS delivers clean pressurization air to RECO recirculation systems, side access systems, or HVAC equipment.
4. Local Service: Our global network of experienced representatives provide a comprehensive serve program to support each system in the field.

### Common Contaminant Gases:

The RDBS is effective at, but not limited to, controlling these contaminant gases:

- Acetaldehyde
- Acetic acid
- Acrylonitrile
- Ammonia
- Chlorine
- Chlorine dioxide
- Ethylene oxide
- Hydrogen chloride
- Hydrogen cyanide
- Hydrogen sulfide
- Methyl mercaptan
- Nitric oxide
- Nitrogen dioxide
- Sulfuric acid
- Sulfur dioxide
- Diesel fumes
- other heavy hydrocarbons

**Standard Features:**

Construction material: 16 gauge galvanized steel  
 Pre-filter (rated 30% efficient per ASHRAE standard 52-76)  
 Full Charge of media manufactured by RECO  
 RECO I final filter (removes 95% @ 1 micron size particles)  
 TEFC motor and blower with gauges  
 Pre and final filter magnetic gauges  
 Skid Mount

**Optional Features:**

Construction material: 0.090 aluminum, or 16 gauge 304 or 316 stainless steel  
 Explosion proof motor  
 Rain louver with bird screen  
 Redundant blower, motor, and back draft damper  
 Cooling coils  
 Heating coils  
 Epoxy or urethane coating

Deep Bed Scrubber						
Model #	Rated CFM	Velocity FPM	Time in Beds	Height (inches)	Width	Depth Direction of Airflow
RDBS 142	810	100	1.20	54.5	24	110
RDBS 143	1220	100	1.20	54.5	36	110
RDBS 144	1590	100	1.20	54.5	48	110
RDBS 154	2000	100	1.20	67	48	110
RDBS 164	2420	100	1.20	79	48	110
RDBS 165	3040	100	1.20	79	59	110
RDBS 166	3580	100	1.20	79	71	110
RDBS 176	4220	100	1.20	91	71	110
RDBS 168	4900	100	1.20	79	94.5	110

\*Add 10 inches to Height if using a Hopper

For design assistance contact a RECO representative or call 1-800-593-2443.

**Important Notice:** The information contained above are the results of various testing and analytical procedures believed by RECO (a U.S.A corporation) to be useful indicators of the relative performance of air filtration systems and media. It is intended, for use by persons having appropriate scientific and technical knowledge and experience, at their own discretion and risk. This information does no in any way constitute a representation warranty promise or guarantee by RECO of this installed performance of RECO media.